Claim Listing

1-48. (Cancelled)

49. (Previously Presented) A prime mover adapted for submersion in a current of water for extracting power from the current of water comprising:

(a) a body;

(b) first and second hydroplanes mounted on the body and extending from respective sides thereof, the angle of inclination of the hydroplanes with respect to said current flow being operatively changeable by rotation of the hydroplanes in unison about a common axis which axis passes through the body and which axis is substantially perpendicular to the direction of flow of the current, the hydroplanes being operatively rotatable in unison about said axis between:

(i) first positions in which the angle of inclination is such that the action of the current on the hydroplanes is effective to generate thrust in a first direction and thereby to move the body in said first direction and

(ii) second positions in which the angle of inclination is such that the action of the current on the hydroplanes is effective to generate thrust in a second direction opposite to the first direction and thereby to move the body in said second direction;

(c) means for rotating the hydroplanes from a said first position to a said second position when the body is moving in the first direction and for rotating the hydroplanes from a said second position to a said first position when the body is moving in the second direction thereby causing the body to execute a controlled oscillation; and

(d) means for extracting power from the oscillatory movement of the body.

50. (Previously Presented) An apparatus for extracting power from moving water comprising the prime mover according to claim 49.

51. (Previously Presented) A method for extracting power from a current of water using a prime mover as claimed in claim 49, comprising:

submersing said body in said current of water; and

periodically reversing the direction of thrust generated by the said hydroplane, by operating said means for rotating the hydroplanes.